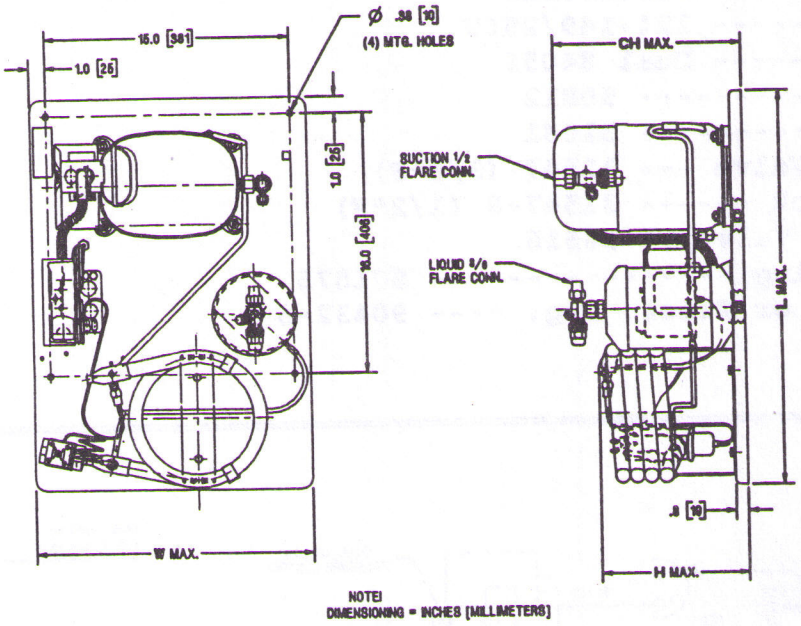
# TECUMSEH HERMETIC CONDENSING UNITS

Date: April 1, 1997

## MODEL AJA7441AXDXW (Formerly AJ7441AW) R-12 1/2 HP WATER COOLED




NOTE!
DIMENSIONING = INCHES [MILLIMETERS]

| Model | Dimensions | | | | *Line Connection | | Pumpdown 90 ° F 90% Full | Air CFM | Oil Chg oz. | Gr. Wt. Lbs. |
|---|---|---|---|---|---|---|---|---|---|---|
| | L | W | H | CH | Suct. | Liq. | | | | |
| AJA7441AXDXW | 24.0 | 17.0 | 9.0 | 11.63 | 1/2 F | 3/8 F | 5.3# | --- | 22 | 88 |

*F=Flare, S=Solder, RF or RS= Rotolock Valve with Flare Or Solder Connections — Use 3/8" Min Pipe Size

Factory charge: 20 psig nitrogen - **MUST BE EVACUATED** — **Water Valve Inlet 3/8" NPT**

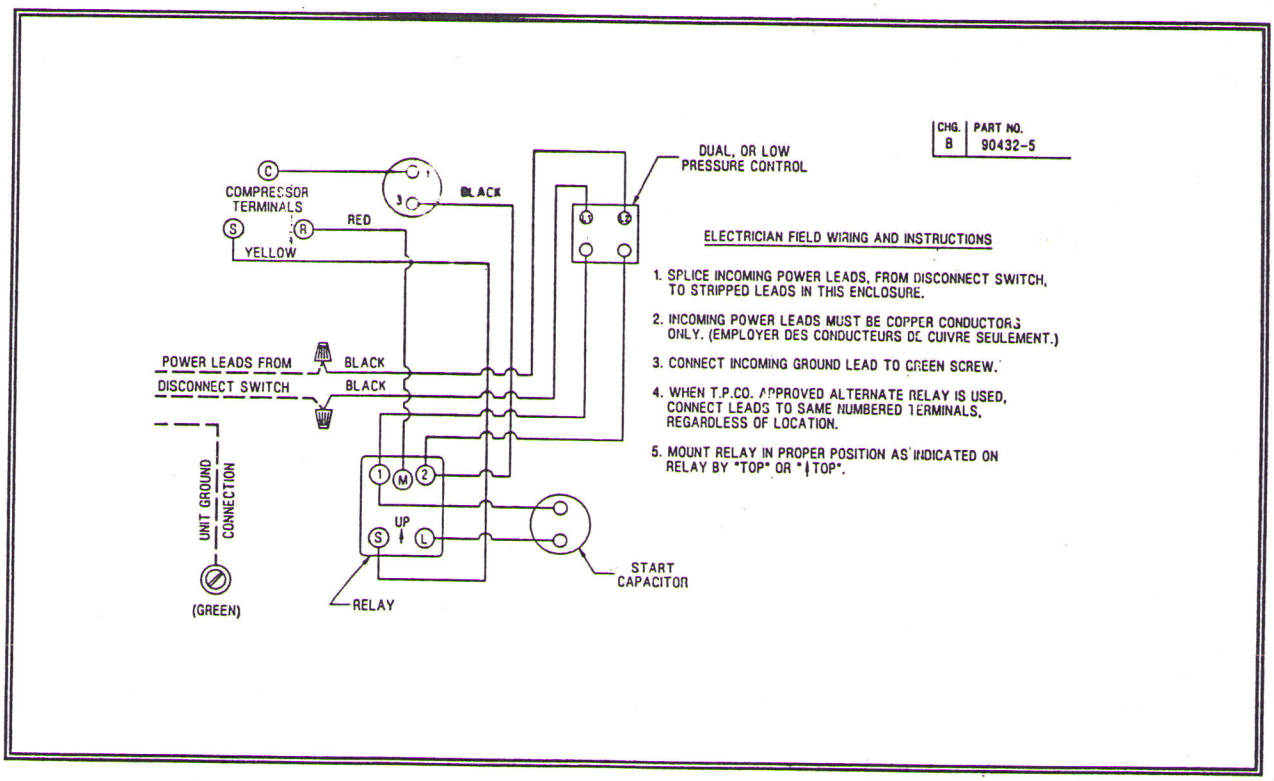
**Performance:** Ambient 90° F-Return Gas 65° F-Condenser Water In 75° F-Head 125 psig

| Evaporator Temp, °F | -10 | 0 | +10 | +20 | +30 |
|---|---|---|---|---|---|
| BTU/HR | 2080 | 2810 | 3800 | 4980 | 6280 |
| Water Usage - gpm | .18 | .23 | .32 | .45 | .62 |
| Watts | 480 | 555 | 635 | 710 | 790 |

**The water valve should be adjusted to maintain a maximum of 95° F water outlet temperature in order to minimize water scaling within the condenser.**

Date: 4-1-97

| SPECIFICATIONS | AJA7441AXDXW |
|---|---|
| Nominal Voltage | 230/208-60-1 |
| Unit B/M | 2B210-9 |
| Voltage Range | 253 to 187 |
| Min. Circuit Ampacity | 6.3 |
| Max. Fuse Size (Amps) | 15 |
| Compressor Model | AJA7441AXD |
| Bill of Material | AJ530FT-336 |
| RLA/LRA | 5.0/29.0 |
| ESP Overload | P83531 |
| ESP Relay | P82934 |
| Relay Box Assy. | AE1168-065 |
| Start Cap | 85PS250D19 |
| Rating | 124-149/250V |
| Pressure Controls | Dual 84056 |
| Condenser | 50812 |
| Receiver Tank | 51081 |
| Receiver Tank Valve | 31547 (3/8"F) |
| Suction Rotolock | 31547-5 (1/2"F) |
| Water Regulat. Valve | 56516 |
| Unit Drawing | SU1875 |
| Schematic or Elect. Dwg. | 90432-5 |


CHG. B | PART NO. 90432-5
DUAL, OR LOW PRESSURE CONTROL
COMPRESSOR TERMINALS
C
S
R
BLACK
RED
YELLOW
POWER LEADS FROM DISCONNECT SWITCH
BLACK
BLACK
UNIT GROUND CONNECTION
(GREEN)
M
UP
S
L
RELAY
START CAPACITOR
ELECTRICIAN FIELD WIRING AND INSTRUCTIONS
1. SPLICE INCOMING POWER LEADS, FROM DISCONNECT SWITCH, TO STRIPPED LEADS IN THIS ENCLOSURE.
2. INCOMING POWER LEADS MUST BE COPPER CONDUCTORS ONLY. (EMPLOYER DES CONDUCTEURS DE CUIVRE SEULEMENT.)
3. CONNECT INCOMING GROUND LEAD TO GREEN SCREW.
4. WHEN T.P.CO. APPROVED ALTERNATE RELAY IS USED, CONNECT LEADS TO SAME NUMBERED TERMINALS, REGARDLESS OF LOCATION.
5. MOUNT RELAY IN PROPER POSITION AS INDICATED ON RELAY BY "TOP" OR "↑TOP".

U.L. Listed ----------File #SA2372 ----------Card Guide #SGYU
CSA Certified ----------Canadian File #12964C ----------USA File #8873C